CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.15/NS/CSR-04/023/CEMENT/2016-17 Date: 29.04.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. N. Shivananda,** No.35, 2nd Cross, Defence Colony, Hesaraghatta Main Road, Bagalagunte, Bangalore - 73.
*NAME OF THE WORK	:	Reserve fund for Emergency works (Improvements to prayer ground of Govt. high school near Kalasthi Nagara in Dasarahalli) in Dasarahalli Ward No.15, BBMP, Bangalore.
*REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/2016-17 Dated: 26.04.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	26.04.2016
PERIOD OF TESTING	:	26.04.2016 to 29.04.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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VISHWANATH .C
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬೆಂಗಳೂರು
ಬೆಂಗಳೂರು

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Job No.: CTCE/BBMP/W.No.15/NS/CSR-04/023/SAND-Gradation/2016-17 : 29.04.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. N. Shivananda,**
No.35, 2nd Cross, Defence Colony, Hesaraghatta Main Road, Bagalagunte, Bangalore - 73.

*** Name of Work** : Reserve fund for Emergency works (Improvements to prayer ground of Govt. high school near Kalasthi Nagara in Dasarahalli) in Dasarahalli Ward No.15, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2016-17 Dated: 26.04.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 26.04.2016

Date of Testing : 29.04.2016

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Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.50	90-100	90-100	90-100	95-100
2.36	78.00	60-95	75-100	85-100	95-100
1.18	57.00	30-70	55-90	75-100	90-100
600 Micron	32.00	15-34	35-59	60-79	80-100
300 Micron	15.10	5-20	8-30	12-40	15-50
150 Micron	5.30	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

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Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.15/NS/CSR-04/023/AGG/GR/2016-17 : 29.04.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. N. Shivananda,**
No.35, 2nd Cross, Defence Colony, Hesaraghatta Main Road, Bagalagunte, Bangalore - 73.

*** Name of Work** : Reserve fund for Emergency works (Improvements to prayer ground of Govt. high school near Kalasthi Nagara in Dasarahalli) in Dasarahalli Ward No.15, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2016-17 Dated: 26.04.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 26.04.2016

Date of Testing : 29.04.2016

Total Wt. of Aggregates in gms= **7000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.00	95-100	85-100
20	37.43	30-70	0-20
10	15.29	10-35	0-5
4.75	1.00	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.15/NS /STEEL/2016-17 02.05.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. N. Shivananda,** No.35, 2nd Cross, Defence Colony, Hesaraghatta Main Road, Bagalagunte, Bangalore.
Name of the Work	:	Reserve fund for Emergency works (Improvements to prayer ground of Govt. high school near Kalasthi Nagara in Dasarahalli) in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference	:	BBMP/DZ/AEE/TDSD/PR/2016-17 Dated: 26.04.2016
Date of Test	:	02.05.2016
Technical Reference	:	IS: 1786-2008

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Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	514	557	13.25	O.K	O.K

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.15/NS /STEEL/2016-17 02.05.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. N. Shivananda,** No.35, 2nd Cross, Defence Colony, Hesaraghatta Main Road, Bagalagunte, Bangalore.
Name of the Work	:	Reserve fund for Emergency works (Improvements to prayer ground of Govt. high school near Kalasthi Nagara in Dasarahalli) in Dasarahalli Ward No.15, BBMP, Bangalore.
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Date of Test	:	02.05.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	12	0.89	515	558	13.40	O.K	O.K

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T-2377

Job No.: CTCE/BBMP/W.No.15/NS/CSR-04/023/CUBE/2016-17 01.06.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. N. Shivananda,**
No.35, 2nd Cross, Defence Colony, Hesaraghatta Main Road, Bagalagunte, Bangalore - 73.

*** Name of the work** : Reserve fund for Emergency works (Improvements to prayer ground of Govt. high school near Kalasthi Nagara in Dasarahalli) in Dasarahalli Ward No.15, BBMP, Bangalore.

*** Reference** : BBMP/DZ/AEE/TDSD/PR/2016-17 Dated: 26.04.2016

*** Sample ID** : Pavement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{30}

Compressive Strength as on : 28th day

Sample Received on : 01.06.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.05.2016	01.06.2016	8.198	703.3	31.26
2	04.05.2016	01.06.2016	8.265	720.3	32.01
3	04.05.2016	01.06.2016	8.390	721.3	32.06

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* **Agency** : **Mr. N. Shivananda,** No.35, 2nd Cross, Defence Colony, Hesaraghatta Main Road, Bagalagunte, Bangalore - 73.

* **Name of the work** : Reserve fund for Emergency works (Improvements to prayer ground of Govt. high school near Kalasthi Nagara in Dasarahalli) in Dasarahalli Ward No.15, BBMP, Bangalore.

* **Reference** : BBMP/DZ/AEE/TDSD/PR/2016-17 Dated: 26.04.2016

* **Sample ID** : Pavement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{30}

Compressive Strength as on : 28th day

Sample Received on : 01.06.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.05.2016	01.06.2016	8.110	715.2	31.79
2	04.05.2016	01.06.2016	8.265	725.3	32.24
3	04.05.2016	01.06.2016	8.310	732.6	32.56

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*** Reference** : BBMP/DZ/AEE/TDSD/PR/2016-17 Dated: 26.04.2016

*** Sample ID** : Pavement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{30}

Compressive Strength as on : 28th day

Sample Received on : 02.06.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.05.2016	02.06.2016	8.098	705.6	31.36
2	05.05.2016	02.06.2016	8.190	710.6	31.58
3	05.05.2016	02.06.2016	8.260	725.8	32.26

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* Agency	: **Mr. N. Shivananda,** No.35, 2nd Cross, Defence Colony, Hesaraghatta Main Road, Bagalagunte, Bangalore - 73.
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* Reference	: BBMP/DZ/AEE/TDSD/PR/2016-17 Dated: 26.04.2016
* Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day
Sample Received on	: 02.06.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.05.2016	02.06.2016	8.289	720.5	32.02
2	05.05.2016	02.06.2016	8.316	725.6	32.25
3	05.05.2016	02.06.2016	8.485	745.6	33.14

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